

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/533,401

Source: PCR

Date Processed by STIC: 7/7/06

ENTERED



PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/533,401

DATE: 07/07/2006

TIME: 14:30:40

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\07072006\J533401.raw

3 <110> APPLICANT: Abbas, Alex
 4 Bodary, Sarah C.
 5 Clark, Hilary
 6 Schoenfeld, Jill
 7 Wood, William I.
 8 Wu, Thomas D.
 10 <120> TITLE OF INVENTION: Compositions and Methods for the Treatment of
 11 Rheumatoid Arthritis
 13 <130> FILE REFERENCE: P1998R1-US
 15 <140> CURRENT APPLICATION NUMBER: US 10/533,401
 16 <141> CURRENT FILING DATE: 2005-04-28
 18 <150> PRIOR APPLICATION NUMBER: PCT/US03/36002
 19 <151> PRIOR FILING DATE: 2003-11-12
 21 <150> PRIOR APPLICATION NUMBER: US 60/425,931
 22 <151> PRIOR FILING DATE: 2002-11-12
 24 <160> NUMBER OF SEQ ID NOS: 209
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 2984
 28 <212> TYPE: DNA
 29 <213> ORGANISM: Homo sapiens
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 34 ctgttataat aacactacac cagcaactcc tggttccca gcagccggaa 100
 36 cacagacagg agagagtcag tggcaaatag acatttttct tatttcttaa 150
 38 aaaacagcaa cttgtttgct acttttattt ctgttgattt tttttcttg 200
 40 gtgtgtgtgg tggttgtttt taagtgtgga gggcaaaagg agataccatc 250
 42 ccaggctcag tccaaccctt ctccaaaacg gcttttctga cactccaggt 300
 44 agcgagggag ttgggtctcc aggttggtcg aggagcaaat gatgaccgcc 350
 46 aaggccgtag acaaaatccc agtaactctc agtgggtttg tgcaccagct 400
 48 gtctgacaac atctaccggg tggaggacct cgccgccacg tcggtgacca 450
 50 tctttcccaa tgccgaactg ggaggcccct ttgaccagat gaacggagtg 500
 52 gccggagatg gcatgatcaa cattgacatg actggagaga agaggtcgtt 550
 54 ggatctccca tatcccagca gctttgctcc cgtctctgca cctagaaacc 600
 56 agaccttcac ttacatgggc aagttctcca ttgacctca gtacctggt 650
 58 gccagctgct acccagaagg cataatcaat attgtgagtg caggcatctt 700
 60 gcaagggttc acttccccag cttcaaccac agcctcatcc agcgtcacct 750
 62 ctgcctcccc caaccactg gccacaggac ccctgggtgt gtgcaccatg 800
 64 tcccagacct agcctgacct ggaccacctg tactctccgc caccgcctcc 850
 66 tcctccttat tctggctgtg caggagacct ctaccaggac ccttctgcgt 900
 68 tcctgtcagc agccaccacc tccacctctt cctctctggc ctaccacca 950
 70 cctccttctt atccatcccc caagccagcc acggaccagc gtctcttccc 1000
 72 aatgatccca gactatcctg gattctttcc atctcagtcg cagagagacc 1050
 74 tacatggtac agctggccca gaccgtaagc cctttccctg cccactggac 1100

pp 6-7

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80 gcagcgaggg accccggctg cctggtagca gctcagcagc agcagcagcc 1250
82 gcccgccgcg ccgcctataa cccacaccac ctgccactgc ggccccattct 1300
84 gaggcctcgc aagtacccca acagaccag caagacgccg gtgcacgaga 1350
86 ggccctaccc gtgcccagca gaaggctgag accggcggtt ctcccgtct 1400
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90 gtgtcgatc tgcatgcgca acttcagccg cagtgaccac ctcaccaccc 1500
92 atatccgcac ccacaccggt gagaagccct tcgcctgtga ctactgtggc 1550
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100 agcagtaaca gcagcagctt tggcgagggg ccgctcgccc cttgctctct 1750
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104 aaggctccgg aggccctttg tccactggag ctgcacaaca aacactacca 1850
106 ccttttctg tccctctctc cctttgttgg gcaaagggct ttggtggagc 1900
108 tagcactgcc ccttttccac ctagaagcag gttcttctta aaacttagcc 1950
110 cattctagtc tctcttaggt gagttgacta tcaacccaag gcaaagggga 2000
112 ggctcagaag gaggtggtgt ggggatcccc tggccaagag ggctgaggte 2050
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116 cttattttga cccatcacag gtttttgacc ctggatgtca gagttgatct 2150
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122 ttgggggaca ttgtacagtg agtgaagtat agcctttatg ccacactctg 2300
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126 gcaatatgta ttatatactc agagaacaga agtgcaatgt gatgggagga 2400
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146 ggagctgatt tgtttggtca ttagctctta atagttgtga aaaaataaat 2900
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152 <210> SEQ ID NO: 2

153 <211> LENGTH: 476

154 <212> TYPE: PRT

155 <213> ORGANISM: Homo sapiens

157 <400> SEQUENCE: 2

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162             20             25             30
164 Leu Ala Ala Thr Ser Val Thr Ile Phe Pro Asn Ala Glu Leu Gly
165             35             40             45

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170	Asn	Ile	Asp	Met	Thr	Gly	Glu	Lys	Arg	Ser	Leu	Asp	Leu	Pro	Tyr
171					65					70					75
173	Pro	Ser	Ser	Phe	Ala	Pro	Val	Ser	Ala	Pro	Arg	Asn	Gln	Thr	Phe
174					80					85					90
176	Thr	Tyr	Met	Gly	Lys	Phe	Ser	Ile	Asp	Pro	Gln	Tyr	Pro	Gly	Ala
177					95					100					105
179	Ser	Cys	Tyr	Pro	Glu	Gly	Ile	Ile	Asn	Ile	Val	Ser	Ala	Gly	Ile
180					110					115					120
182	Leu	Gln	Gly	Val	Thr	Ser	Pro	Ala	Ser	Thr	Thr	Ala	Ser	Ser	Ser
183					125					130					135
185	Val	Thr	Ser	Ala	Ser	Pro	Asn	Pro	Leu	Ala	Thr	Gly	Pro	Leu	Gly
186					140					145					150
188	Val	Cys	Thr	Met	Ser	Gln	Thr	Gln	Pro	Asp	Leu	Asp	His	Leu	Tyr
189					155					160					165
191	Ser	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Tyr	Ser	Gly	Cys	Ala	Gly	Asp
192					170					175					180
194	Leu	Tyr	Gln	Asp	Pro	Ser	Ala	Phe	Leu	Ser	Ala	Ala	Thr	Thr	Ser
195					185					190					195
197	Thr	Ser	Ser	Ser	Leu	Ala	Tyr	Pro	Pro	Pro	Pro	Ser	Tyr	Pro	Ser
198					200					205					210
200	Pro	Lys	Pro	Ala	Thr	Asp	Pro	Gly	Leu	Phe	Pro	Met	Ile	Pro	Asp
201					215					220					225
203	Tyr	Pro	Gly	Phe	Phe	Pro	Ser	Gln	Cys	Gln	Arg	Asp	Leu	His	Gly
204					230					235					240
206	Thr	Ala	Gly	Pro	Asp	Arg	Lys	Pro	Phe	Pro	Cys	Pro	Leu	Asp	Thr
207					245					250					255
209	Leu	Arg	Val	Pro	Pro	Pro	Leu	Thr	Pro	Leu	Ser	Thr	Ile	Arg	Asn
210					260					265					270
212	Phe	Thr	Leu	Gly	Gly	Pro	Ser	Ala	Gly	Val	Thr	Gly	Pro	Gly	Ala
213					275					280					285
215	Ser	Gly	Gly	Ser	Glu	Gly	Pro	Arg	Leu	Pro	Gly	Ser	Ser	Ser	Ala
216					290					295					300
218	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Tyr	Asn	Pro	His	His	Leu
219					305					310					315
221	Pro	Leu	Arg	Pro	Ile	Leu	Arg	Pro	Arg	Lys	Tyr	Pro	Asn	Arg	Pro
222					320					325					330
224	Ser	Lys	Thr	Pro	Val	His	Glu	Arg	Pro	Tyr	Pro	Cys	Pro	Ala	Glu
225					335					340					345
227	Gly	Cys	Asp	Arg	Arg	Phe	Ser	Arg	Ser	Asp	Glu	Leu	Thr	Arg	His
228					350					355					360
230	Ile	Arg	Ile	His	Thr	Gly	His	Lys	Pro	Phe	Gln	Cys	Arg	Ile	Cys
231					365					370					375
233	Met	Arg	Asn	Phe	Ser	Arg	Ser	Asp	His	Leu	Thr	Thr	His	Ile	Arg
234					380					385					390
236	Thr	His	Thr	Gly	Glu	Lys	Pro	Phe	Ala	Cys	Asp	Tyr	Cys	Gly	Arg
237					395					400					405
239	Lys	Phe	Ala	Arg	Ser	Asp	Glu	Arg	Lys	Arg	His	Thr	Lys	Ile	His

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254 <210> SEQ ID NO: 3
255 <211> LENGTH: 2853
256 <212> TYPE: DNA
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264 ggagcctggt cccgctgttc tgctggctga gggcaacctt ctggctgcta 150
266 gctaccaaga ggagaaagca gcagctgggc ctgagagggc cagatgagac 200
268 caaagaggag gaagaggacc ctcctctgcc caccaccca accagcgta 250
270 actatcactt cactcgccag tgcaactaca aatgcggctt ctgtttccac 300
272 acagccaaaa catcctttgt gctgcccctt gaggaagcaa agagaggatt 350
274 gcttttgctt aaggaagctg gtatggagaa gatcaacttt tcaggaggag 400
276 agccatttct tcaagaccgg ggagaatacc tgggcaagtt ggtgaggttc 450
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320 gggggcaaaa tttaatattg atttgatttt ttaaaacaat gtttactgcg 1550
322 atttctatat ttccattttg aaactatttc ttgttccagg tttgttcatt 1600
324 tgacagagtc agtatttttt gccaaatata cagataacca gttttcacat 1650
326 ctgagacatt acaaagtatc tgcctcaatt atttctgctg gttataatgc 1700
328 tttttttttt ttgcctttat gccattgcag tcttgacttt tttactgtga 1750

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336 tgtgtgtggt acctgttgtg tccctttctc ttcaaagatc cctgagcaaa 1950
338 acaaagatac gctttccatt tgatgatgga gttgacatgg aggcagtgtc 2000
340 tgcattgctt tgctgccta tcatctggcc acatgaggct gtcaagcaaa 2050
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344 gacgttacac tgggttgga taagatatcc taaaatcacg ctggaacctt 2150
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352 gcaagcataa gggaaaatgt cacgtaaact agatcaggga acaaaatcct 2350
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356 ttgcataaaa aaaaatttct tatcattgtt tcaaaaaagc aaaatcatgg 2450
358 aaaatthttg ttgtccaggc aaataaaaagg tcattttaat ttaaaaaaaa 2500
360 aaaaaaaaaa aaaaaaaaaa aaaaggccaa ggaaaaaaa tattcctact 2550
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366 aagaaaagag aagaatgaat tctaaagatg ttccccatgg gttttgattg 2700
368 tgtctaagct atgatgacct tcatataatc agcataaaca taaaacaaat 2750
370 tttttactta acatgagtgc actttactaa tctcatggc acagtggctc 2800
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376 <210> SEQ ID NO: 4

377 <211> LENGTH: 361

378 <212> TYPE: PRT

379 <213> ORGANISM: Homo sapiens

381 <400> SEQUENCE: 4

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386 20 25 30
388 Leu Phe Cys Trp Leu Arg Ala Thr Phe Trp Leu Leu Ala Thr Lys
389 35 40 45
391 Arg Arg Lys Gln Gln Leu Val Leu Arg Gly Pro Asp Glu Thr Lys
392 50 55 60
394 Glu Glu Glu Glu Asp Pro Pro Leu Pro Thr Thr Pro Thr Ser Val
395 65 70 75
397 Asn Tyr His Phe Thr Arg Gln Cys Asn Tyr Lys Cys Gly Phe Cys
398 80 85 90
400 Phe His Thr Ala Lys Thr Ser Phe Val Leu Pro Leu Glu Glu Ala
401 95 100 105
403 Lys Arg Gly Leu Leu Leu Lys Glu Ala Gly Met Glu Lys Ile
404 110 115 120
406 Asn Phe Ser Gly Gly Glu Pro Phe Leu Gln Asp Arg Gly Glu Tyr
407 125 130 135
409 Leu Gly Lys Leu Val Arg Phe Cys Lys Val Glu Leu Arg Leu Pro
410 140 145 150
412 Ser Val Ser Ile Val Ser Asn Gly Ser Leu Ile Arg Glu Arg Trp

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:205; Xaa Pos. 84

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TIME: 14:30:41

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\07072006\J533401.raw

L:801 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:100
M:341 Repeated in SeqNo=7
L:1002 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:2050
M:341 Repeated in SeqNo=8
L:1051 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:45
L:3602 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:50
M:341 Repeated in SeqNo=39
L:3643 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:15
M:341 Repeated in SeqNo=40
L:6404 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:90
L:9015 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:98 after pos.:1100
L:9175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:100 after pos.:2150
M:341 Repeated in SeqNo=100
L:11593 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127 after pos.:1150
M:341 Repeated in SeqNo=127
L:11895 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:131 after pos.:350
M:341 Repeated in SeqNo=131
L:14258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:158 after pos.:400
M:341 Repeated in SeqNo=158
L:15433 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:170 after pos.:30
L:17038 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:204 after pos.:250
M:341 Repeated in SeqNo=204
L:17193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:205 after pos.:75